

AMENDMENTS TO THE CLAIMS

3. (Canceled)
4. (Currently Amended) A wheel assembly according to claim [3] 5, wherein the wheel includes a hub with a through passage in which the spindle is engaged, and the assembly further including a cap closing said passage in line with the free end of the spindle, the rotary antenna being carried by the cap on a face that is parallel to the free end of the spindle and extends axially inward from said face, the cap, the spindle, and the hub defining an essentially closed space within which the rotary antenna and the fixed antenna are confined.
5. (Currently Amended) A wheel assembly [according to claim 3], comprising:
- a wheel having a rim adapted to receive a tire, the wheel carrying a sensor for measuring pressure inside the tire;
 - a spindle around which the wheel is mounted to rotate, said spindle having a free end; and
 - a communication device disposed between the sensor and a device associated with the spindle for making use of measurements performed by the sensor;
 - wherein said communication device comprises a radio transmission device including a rotary antenna carried by the wheel and a fixed antenna carried by the spindle, both of which are disposed in a vicinity of the free end of the spindle and are placed so as to face each other in succession in line with the spindle, and [wherein the rotary antenna and the fixed antenna] are generally circularly symmetrical, and wherein they are disposed substantially coaxially about the axis of rotation of the wheel.

6. (Currently Amended) A wheel assembly according to claim [3] 5, wherein each of the rotary antenna and the fixed antenna comprises a set of metal turns carried by a support, said turns form the transmission and/or reception elements of the antenna.
7. (Previously Presented) A wheel assembly according to claim 4, wherein each of the rotary antenna and the fixed antenna comprises a set of metal turns carried by a support, said turns form the transmission and/or reception elements of the antenna, and said set of metal turns of the rotary antenna is directly disposed on the cap which forms a support.